TEJUS
CONSULTANTS

Test Report on Cement

Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	15-01-2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	108 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	489 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Authorised Signatory

TEJUS CONSULTANTS
No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

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TEJUS CONSULTANTS

TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s KRIDL

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	PCC
Location/Source	Site	Date of Sampling	14-01-2019
Period of Soaking	24 hours	Date of Testing	15-01-2019

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	667	653	671	
B	Weight of oven - dry sample gm.	659	645	663	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1694	1685	1696	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.657	2.654	2.652	**2.655**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.214	1.240	1.207	**1.220**

Asst. Executive Engineer
Project Division
BBMP Bangalore-Zone

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Authorised Signatory

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No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Consultants	Tejus Consultants, Bangalore
Contractor	M/s KRIDL

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	M sand	**Proposed Use**	PCC
Sample Location	Site	**Date of Sampling**	14-01-2019
		Date of Testing	14-01-2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	212	212	7.07	92.93	90 - 100
2.36 mm	322	534	17.80	82.20	75 - 100
1.18 mm	425	959	31.97	68.03	55 - 90
0.600 mm	492	1451	48.37	51.63	35 -59
0.300 mm	754	2205	73.50	26.50	8-30
0.150 mm	624	2829	94.30	5.70	0 - 10
Pan	171	3000			-

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Remarks : Satisfactory / Not Satisfactory

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Authorised Signatory

TEJUS CONSULTANTS
No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

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TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s KRIDL
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	**Proposed Use**	PCC
Sample Location	Site	**Date of Sampling**	15-01-2019
		Date of Testing	15-01-2019

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	78	78	2.60	97.40	95-100
20.00mm	1382	1460	48.67	51.33	30-70
10.00mm	982	2442	81.40	18.60	10-35
4.75mm	482	2924	97.47	2.53	0-5
Pan	76	3000	100.00	0.00	

Remarks : ✓ Satisfactory / Not Satisfactory

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TEJUS
CONSULTANTS

Test Report on Cement

Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	19-01-2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	110 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	448 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

Asst. Executive Engineer
Project Division
Yelahanka
BBMP

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Consultants	Tejus Consultants, Bangalore
Contractor	M/s KRIDL

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	M sand	Proposed Use	concrete
Sample Location	At Plant	Date of Sampling	19-01-2019
		Date of Testing	19-01-2019

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	208	208	6.93	93.07	90 - 100
2.36 mm	315	523	17.43	82.57	75 - 100
1.18 mm	442	965	32.17	67.83	55 - 90
0.600 mm	489	1454	48.47	51.53	35 -59
0.300 mm	711	2165	72.17	27.83	8-30
0.150 mm	624	2789	92.97	7.03	0 - 10
Pan	211	3000			-

Remarks : Satisfactory / Not Satisfactory

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No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s KRIDL

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	**Proposed Use**	concrete
Location/Source	At Plant	**Date of Sampling**	19-01-2019
Period of Soaking	24 hours	**Date of Testing**	20-01-2019

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	671	661	652	
B	Weight of oven - dry sample gm	662	652	644	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1697	1690	1685	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.659	2.650	2.661	**2.657**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.360	1.380	1.242	**1.327**

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEJUS CONSULTANTS

Authorised Signatory

TEJUS CONSULTANTS
No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike		
Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli		
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore		
Contractor	M/s KRIDL		
Total Weight:	10000	gms	

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Concrete
Sample Location	At Plant	Date of Sampling	19-01-2019
		Date of Testing	19-01-2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	274	274	2.74	97.26	95 - 100
10.00 mm	4725	4999	49.99	50.01	25 - 55
4.75 mm	4318	9317	93.17	6.83	0 - 10
Pan	683	10000			

Asst. Executive Engineer
Project Division
Yelahanka Zone 02
BBMP, Bangalore

Remarks : Satisfactory / Not Satisfactory

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No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

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TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli				
Consultants	TEJUS CONSULTANTS				
Contractor	M/s KRIDL				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	**12.5 mm down size**		**Proposed Use**	CONCRETE	
Sample Location	At Plant/Site		**Date of Sampling**	19-01-2019	
			Date of Testing	19-01-2019	
IS Sieve Size (in mm)	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
20.0	0	0	0	100	**100**
12.5	511	511	5.11	94.89	**90-100**
10.0	3526	4037	40.37	59.63	**40-85**
4.75	5264	9301	93.01	6.99	**0-10**
Pan	699	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEJUS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project:	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Client:	Brahat Bangalore Mahanagar Palike
Consultant:	TEJUS CONSULTANTS
Contractor:	M/s KREW
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference Std. code:	IS:516-1959
Sample Location:	Site

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	21-01-2019	28-01-2019	7 days	8.142	22500	315	14.00	13.87
2	21-01-2019	28-01-2019	7 days	8.154	22500	311	13.82	
3	21-01-2019	28-01-2019	7 days	8.138	22500	310	13.78	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Site

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	21-01-2019	18-02-2019	28 days	8.144	22500	510	22.67	22.58
2	21-01-2019	18-02-2019	28 days	8.162	22500	503	22.36	
3	21-01-2019	18-02-2019	28 days	8.151	22500	511	22.71	

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PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Name of Work	:	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Contractor	:	M.s KRIDL
No.of Sample Tested	:	3
Date of Testing	:	26-01-2019
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M20. 100mm thick

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	90.00	0.458	2591.75	1.80	0.960	39.48	20.11	21.72	20.85	26.06
2	50.00	90.00	0.462	2614.39	1.80	0.960	39.66	20.20	21.81	20.94	26.18
3	50.00	90.00	0.469	2654.00	1.80	0.960	39.54	20.14	21.75	20.88	26.10

Assistant Executive Engineer
Project Division
BBMP Kadugodi Zone
Bangalore

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TEJUS CONSULTANTS

Consultant's Representative

TEJUS CONSULTANTS
No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

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Test Report on Cement

Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	10-08-2021
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	115 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	490 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	6 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s KRIDL

SPECIFIC GRAVITY AND WATER ABSORPTION
FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	PCC
Location/Source	Site	Date of Sampling	10-08-2021
Period of Soaking	24 hours	Date of Testing	11-08-2021

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	665	650	670	
B	Weight of over - dry sample gm.	657	642	662	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1694	1685	1696	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.671	2.675	2.659	**2.668**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.218	1.246	1.208	**1.224**

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CONSULTANTS

TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s KRIDL
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	Proposed Use	PCC
Sample Location	Site	Date of Sampling	10-08-2021
		Date of Testing	10-08-2021

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	80	80	2.67	97.33	95-100
20.00mm	1390	1470	49.00	51.00	30-70
10.00mm	999	2469	82.30	17.70	10-35
4.75mm	430	2899	96.63	3.37	0-5
Pan	101	3000	100.00	0.00	

Remarks : ✓ Satisfactory / Not Satisfactory

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TEJUS

TEST REPORT

[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

SIEVE ANALYSIS

[illegible]	[illegible]			
[illegible]	M sand	Proposed Use	[illegible]	
[illegible]	[illegible]	Date of Sampling	[illegible]	
[illegible]	[illegible]	Date of Testing	[illegible]	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone II)
[illegible]	[illegible]	0	0	[illegible]	100
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Pan	[illegible]	[illegible]			

Remarks : [illegible] Satisfactory / Not Satisfactory

Note:

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory/site.
3. Any query regarding the report must be reported/reported within 15days from the date of testing.
4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Authorised Signatory

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TEJUS
CONSULTANTS

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Name of Work	:	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Client	:	Bruhat Bengaluru Mahanagara Palike
Contractor	:	M/s KRIDL
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Date of Testing	:	17-01-2019, 13-08-2021.
Techinical Reference	:	IS 1786:2008, IS1608:2005, IS1599:1985(Reaffirmed2006)
Sample Identification	:	10mm.TMT Fe500 Bars

Sl. No.	Nominal size dia in mm)	Mass per metre (kg/m)	TENSILE STRENGTH		
			0.20% proof stress/yield stress N/mm2	Tensile strength N/mm2 '	Elongation,percent on gauge length
1	10	0.618	526	574	19

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Consultant's Representative

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TEJUS
CONSULTANTS

Test Report on Cement

Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	13-08-2021
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	115 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	450 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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TEJUS CONSULTANTS

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TEJUS CONSULTANTS
No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 2328 7532

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CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Consultants	Tejus Consultants, Bangalore
Contractor	M/s KRIDL

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	M sand	Proposed Use	concrete
Sample Location	At Plant	Date of Sampling	13-08-2021
		Date of Testing	13-08-2021

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	210	210	7.00	93.00	90 - 100
2.36 mm	320	530	17.67	82.33	75 - 100
1.18 mm	450	980	32.67	67.33	55 - 90
0.600 mm	490	1470	49.00	51.00	35 -59
0.300 mm	715	2185	72.83	27.17	8-30
0.150 mm	630	2815	93.83	6.17	0 - 10
Pan	185	3000			-

Asst. Executive Engineer
Project Division
BBMP, Bangalore

Remarks : Satisfactory / Not Satisfactory

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TEJUS CONSULTANTS

Authorised Signatory

TEJUS CONSULTANTS
No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Providing Drinking Water Through Drilling New Borewells and Water Pipe Line in Ward No.08, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s KRIDL

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	concrete
Location/Source	At Plant	Date of Sampling	13-08-2021
Period of Soaking	24 hours	Date of Testing	14-08-2021

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	681	673	663	
B	Weight of oven - dry sample gm.	672	665	655	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1695	1690	1685	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.575	2.578	2.589	**2.580**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.339	1.203	1.221	**1.255**

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